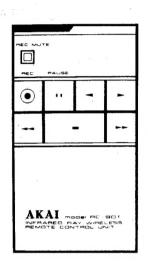
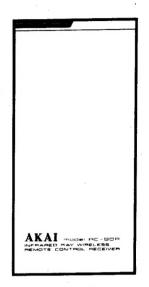
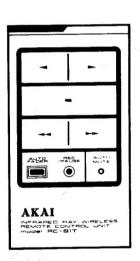
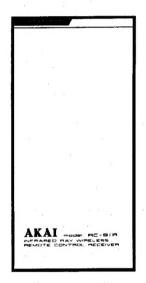
AKAI SERVICE MANUAL









INFRARED RAY WIRELESS REMOTE CONTROL UNIT

RC-90 MODELRC-91

PRECAUTIONS

1. Remote Control Unit RC-90 is for use with:

Stereo Tape Deck: Stereo Cassette Deck:

GX-747, GX-77 CS-F9, CS-F11, CS-F33R, GX-F15, GX-F25, GX-F35, GX-F37, GX-F44R, GX-F60R, GX-F66R, GX-F95, UC-F5

* This Unit can also be used with any other equipment marked "RC-21" or RC-90" on the rear panel.

2. Remote Control Unit RC-91 is for use with:

Stereo Cassette Deck:

GX-F31, GX-F51, GX-F71, GX-F91

* This Unit can also be used with any other equipment marked "RC-31" or RC-91" on the rear panel,

SPECIFICATIONS

1. MODEL RC-90

TRANSMITTER RC-90T

SYSTEM

NUMBER OF CHANNELS

AREA OF OPERATION DIRECTIVITY

OPERATION TIME

POWER REQUIREMENT

DIMENSIONS WEIGHT

Infrared Ray PCM System

7 m (on axis) ±30° (at 4m) 5000 times

DC 3V (SUM-3, AA-3 or R6 size

battery × 2) $65(W) \times 18.5(H) \times 120(D)$ mm

85 grams (without batteries)

RECEIVER RC-90R

REMOTE CONTROL PLUG DIN type (8 pins)

POWER REQUIREMENT

DC 7.5 V (SUM-3, AA-3 or R6 size battery \times 5)

POWER CONSUMPTION 4 mA

DIMENSIONS $71(W) \times 18.5(H) \times 140(D)$ mm

(without remote control cable)

WEIGHT 130 grams (without batteries)

* For improvement purposes, specifications and design are subject to change without notice.

2. MODEL RC-91

TRANSMITTER RC-91T

SYSTEM

NUMBER OF CHANNELS

LENGTH OF OPERATION DIRECTIVITY

OPERATION TIME

POWER REQUIREMENT

DIMENSIONS WEIGHT

Infrared Ray PCM System

14

7 m (on axis) ±15° (at 4m)

5000 times DC 3V (SUM-3, AA-3 or R6 size

battery × 2) $65(W) \times 18.5(H) \times 120(D)$ mm

85 grams (without batteries)

RECEIVER RC-91R

REMOTE CONTROL PLUG DIN type (8 pins)

POWER REQUIREMENT

DC 7.5 V (SUM-3, AA-3 or R6 size

battery \times 5)

POWER CONSUMPTION

DIMENSIONS

 $71(W) \times 18.5(H) \times 140(D)$ mm

(without remote control cable)

WEIGHT

130 grams (without batteries)

* For improvement purposes, specifications and design are subject to change without notice.

PARTS LIST 111

1. MODEL RC-90

1) TRANSMITTER BLOCK RC-90T

REF. NO.	PARTS NO.	DESCRIPTION
NO. 1-IC1,2 1-IC3,4 1-IC5 1-TR1 to 12 1-TR13 1-D1, 2 1-D3, 4 1-SW1 1-X1	EI-710031 EI-710033 EI-710034 ET-200505 ET-318603 ED-562386 ED-705414 ES-710038 EZ-710037	IC TC40H002 IC TC40H008 IC M50110P TR 2SC2603 E, F TR 2SD545NP F D GERMA H 1S188AM D LED SE303A INFRARED SW SLIDE OSC CE CSB455E 455KHz
1-1 1-2 1-3 1-4 1-5	EA-710030 EZ-710026 EZ-710027 EZ-710028 EZ-710029 AX-710025	PC SW RC-90T CONTACT POINT RUBBER TERMINAL BATTERY A TERMINAL BATTERY B TERMINAL BATTERY C COVER BATTERY RC-90T

2) RECEIVER BLOCK RC-90R

REF. NO.	PARTS NO.	DESCRIPTION
2-IC1 2-IC2 2-IC3 2-TR1	EI-330226 EI-710042 EI-705079 ET-200505	IC µPC1373H IC M50111P IC TC4028BP TR 2SC2603 E, F
2-TR2 2-TR6to 12	ET-200558	TR 2SA1115 E, F
2-D1 2-D2.3	ET-200505 ED-710045 ED-557447	TR 2SC2603 E, F D PHOTO TPS703 D SILICON H 1S1588
2-SW1 2-L1	ES-710038 EO-709902	SW SLIDE COIL FS1012-562J
2-X 1 2-1	EZ-710037 EZ-710027	OSC CE CSB455E 455KHz TERMINAL BATTERY A
2-2 2-3	EZ-710028 EZ-710029	TERMINAL BATTERY B TERMINAL BATTERY C
2-4 2-5	EZ-710040 AX-710039	TERMINAL BATTERY D COVER BATTERY RC-90R
2-6	EJ-710041	PLUG W/CORD

2. MODEL RC-91

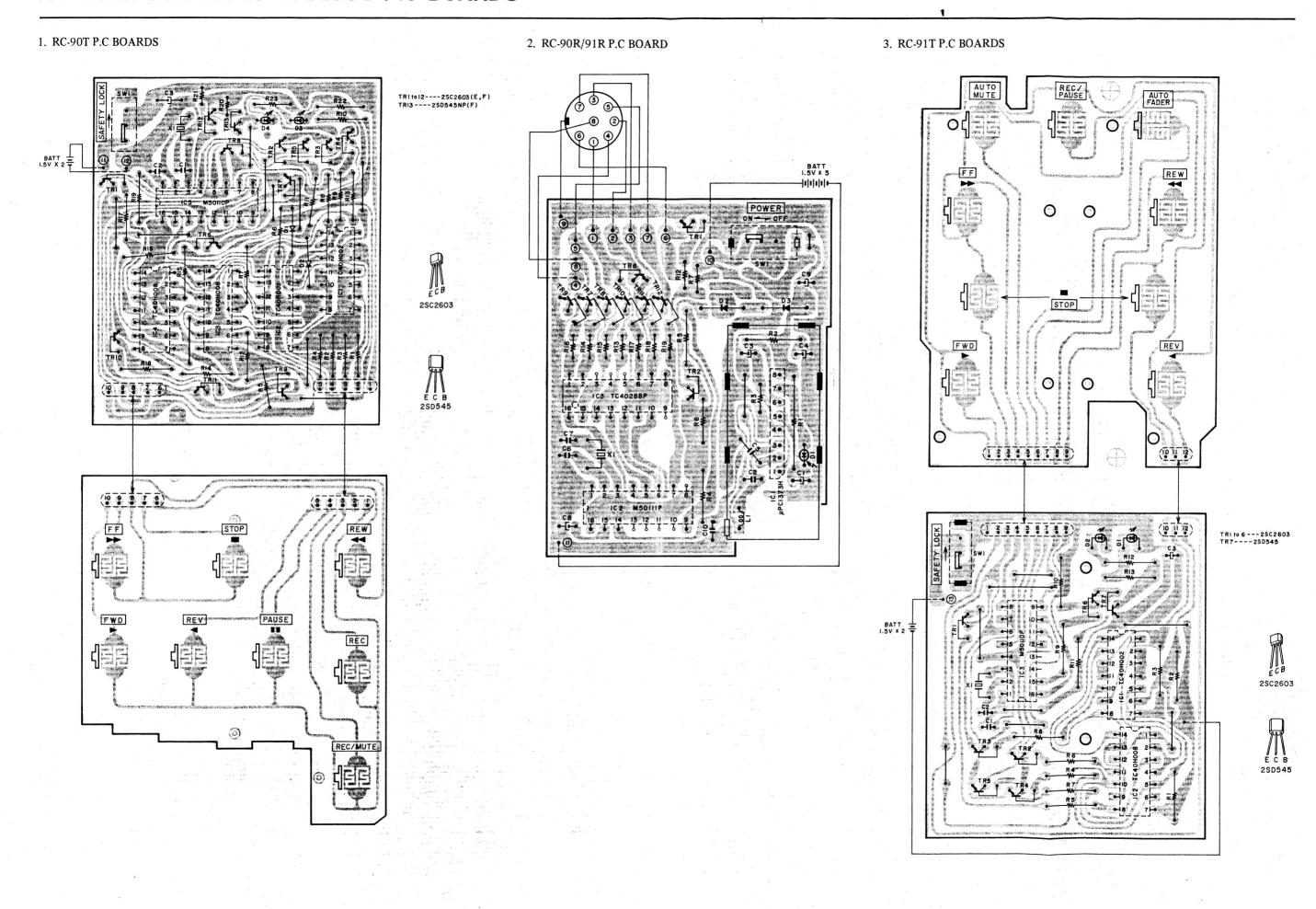
1) TRANSMITTER BLOCK RC-91T

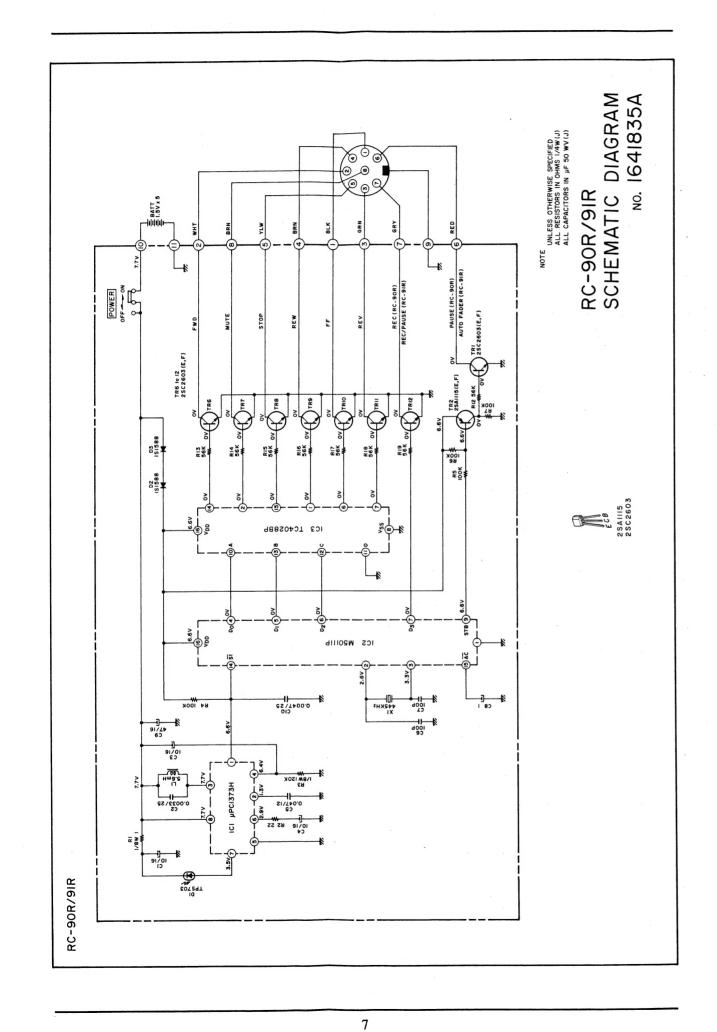
REF. NO.	PARTS NO.	DESCRIPTION
1-IC1	EI-710031	IC TC40H002
1-IC2	EI-710033	IC TC40H008
1-IC3	EI-710034	IC M50110P
1-TR1 to 6	ET-200505	TR 2SC2603 E, F
1-TR7	ET-318603	TR 2SD545NP F
1-D1, 2	ED-705414	D LED SE303A INFRARED
1-SW1	ES-710038	SW SLIDE
1-X1	EZ-710037	OSC CE CSB455E 455KHz
1-1	EZ-710060	CONTACT POINT RUBBER
1-2	EZ-710027	TERMINAL BATTERY A
1-3	EZ-710028	TERMINAL BATTERY B
1-4	EZ-710029	TERMINAL BATTERY C
1-5	EA-710061	PC SW RC-91
1-6	AX-710025	COVER BATTERY RC-90T

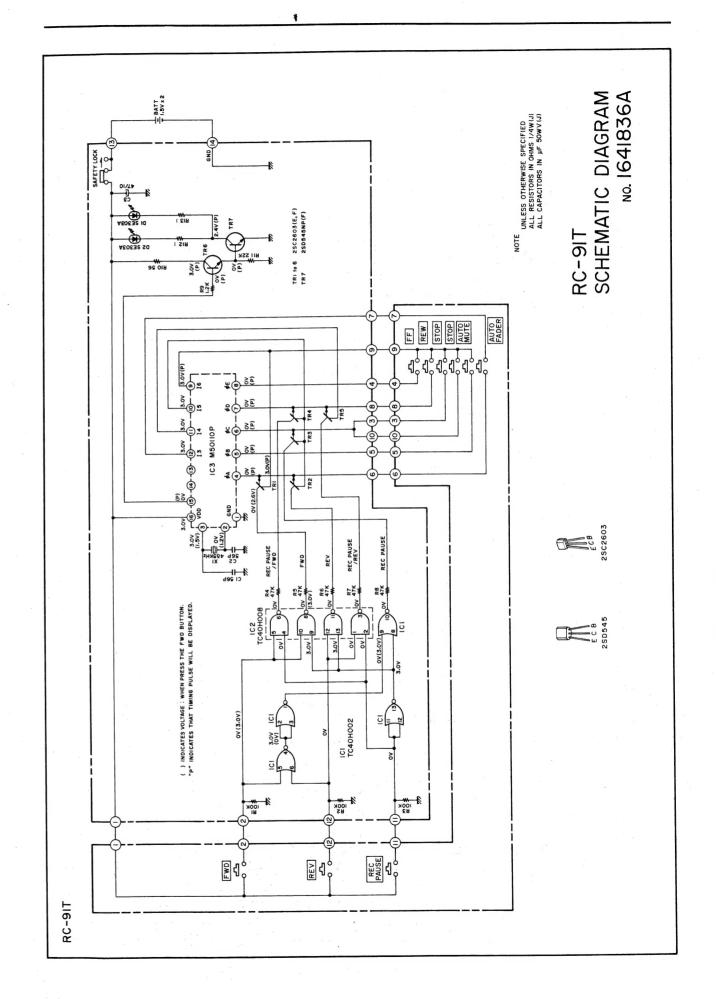
2) RECEIVER BLOCK RC-91R

DEE

NO.	PARTS NO.	DESCRIPTION
2-IC1	EI-330226	IC μPC1 37 3H
2-IC2	EI-710042	IC M50111P
2-IC3	EI-705079	IC TC4028BP
2-TR1	ET-200505	TR 2SC2603 E, F
2-TR2	ET-200558	TR 2SA1115 E, F
2-TR6 to 12	ET-200505	TR 2SC2603 E, F
2-D1	ED-710045	D PHOTO TPS703
2-D2,3	ED-557447	D SILICON H 1S1588
2-SW1	ES-710038	SW SLIDE
2-L1	EO-709902	COIL FS1012-562J
2-X1	EZ-710037	OSC CE CSB455E 455KHz
2-1	EZ-710027	TERMINAL BATTERY A
2-2	EZ-710028	TERMINAL BATTERY B
2-3	EZ-710029	TERMINAL BATTERY C
2-4	EZ-710040	TERMINAL BATTERY D
2-5	AX-710039	COVER BATTERY RC-90R
2-6	EJ-710041	PLUG W/CORD
		T. C.

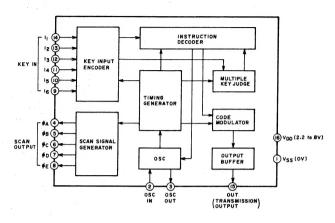




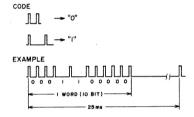


V. SCHEMATIC DIAGRAM OF ICS

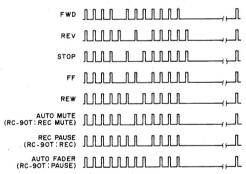
M50110P



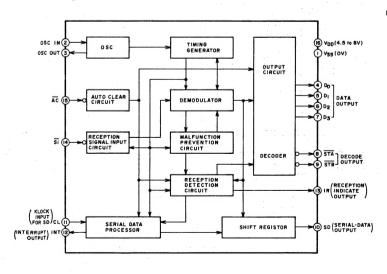
TRANSMISSION CODE (M50110P PIN (5))



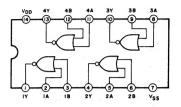
WAVE FORM OF LSI M50110P PIN (5) (RC-90T/RC-91T)



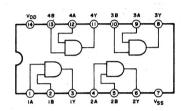
M50111P



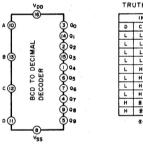
TC40H002P



TC40H008P



TC4028BP



SELECTED OUTPUT "H"		UTS	INP	
	Α	В	С	D
QO	L	L	L	L
QI	Н	L	L	L
Q2	٦	Н	L	L
Q3	Н	н	L	L
94	L	L	н	L
95	·H	L	н	L
96	L.	н	н	L
97	н	н	н	L
Q8	L	*	*	н
Qg	н	*	*	н

μPC1373H

